

FCC Test Report

Applicant : Shenzhen Minsuo Industrial Co.,Ltd

Address : 12th floor, Block B, Tengyao Building, No. 268
Gushu 2nd road,Xixiang Town, Bao'an,
Shenzhen, Guangdong, China

Product Name : 3-IN-1 FOLDABLE MAGNETIC WIRELESS
CHARGER

Report Date : Aug. 21, 2024



Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Shenzhen Minsuo Industrial Co.,Ltd
Manufacturer : Shenzhen Minsuo Industrial Co.,Ltd
Product Name : 3-IN-1 FOLDABLE MAGNETIC WIRELESS CHARGER
Model No. : MP-273, FMWC-12/2393
Trade Mark : N/A
Input: 9V= 3A; 5V= 3A
Output for phone: 5W, 7.5W, 10W, 15W MAX.
Rating(s) : Output for airpods: 3W MAX.
Output for apple watch: 2W MAX.
Total Output: 20W MAX.
Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Jul. 22, 2024

Date of Test

Jul. 22, 2024 to Aug. 02, 2024

Prepared By

Nian Xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Edward Pan

(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 21, 2024



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Minsuo Industrial Co.,Ltd
Address	:	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town, Bao'an, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Minsuo Industrial Co.,Ltd
Address	:	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town, Bao'an, Shenzhen, Guangdong, China
Factory	:	Shenzhen Minsuo Industrial Co.,Ltd
Address	:	12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road,Xixiang Town, Bao'an, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	3-IN-1 FOLDABLE MAGNETIC WIRELESS CHARGER
Model No.	:	MP-273, FMWC-12/2393 (Note: All samples are the same except the model number, so we prepare "MP-273" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	DC 9V from adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A

RF Specification

Operation Frequency	:	112-205kHz for mobile phone and Earphone 325kHz for watch
Modulation Type	:	FSK
Antenna Type	:	Inductive loop coil Antenna

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Apple Watch	Apple	/	/
Apple AirPods	Apple	AirPods Pro	/
Wireless charging load	Shenzhen Ouju Technology Co., Ltd.	CD2577	/

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Modes	Descriptions
TM1	WPT Mode (load (15W) + Watch (2W) + Earphone (3W))
TM2	WPT Mode (load (10W) + Watch (2W) + Earphone (3W))
TM3	WPT Mode (load (7.5W) + Watch (2W) + Earphone (3W))
TM4	WPT Mode (load (5W) + Watch (2W) + Earphone (3W))
TM5	WPT Mode (load (15W) + Watch (2W))
TM6	WPT Mode (load (10W) + Watch (2W))
TM7	WPT Mode (load (7.5W) + Watch (2W))
TM8	WPT Mode (load (5W) + Watch (2W))
TM9	WPT Mode (load (15W) + Earphone (3W))
TM10	WPT Mode (load (10W) + Earphone (3W))
TM11	WPT Mode (load (7.5W) + Earphone (3W))
TM12	WPT Mode (load (5W) + Earphone (3W))
TM13	WPT Mode (Watch (2W) + Earphone (3W))
TM14	WPT Mode (load (15W))
TM15	WPT Mode (load (10W))
TM16	WPT Mode (load (7.5W))
TM17	WPT Mode (load (5W))

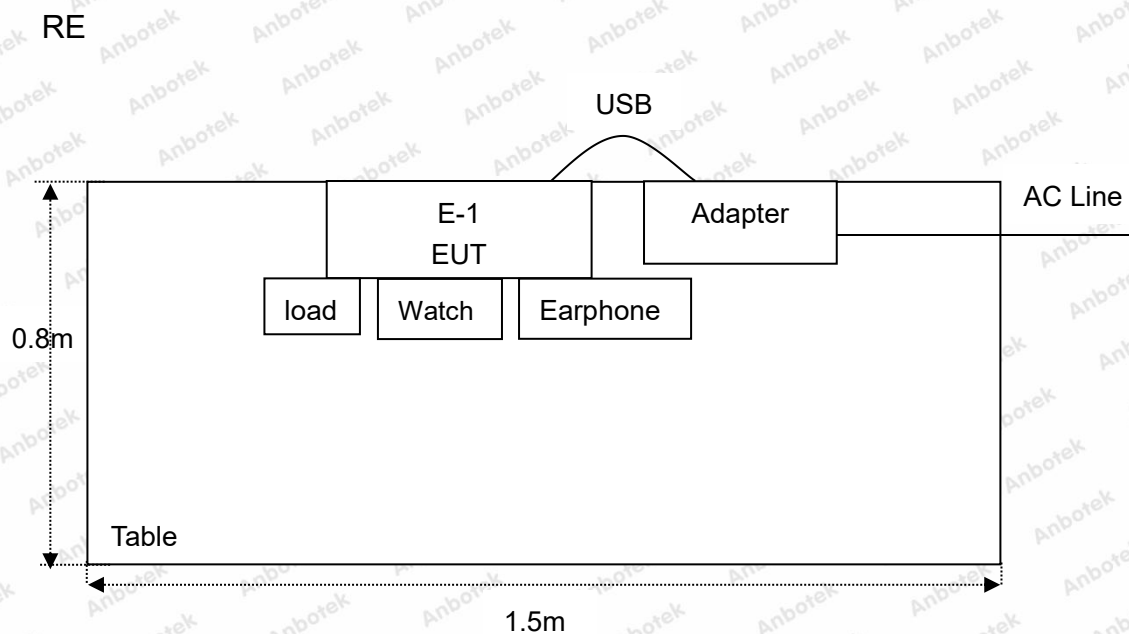
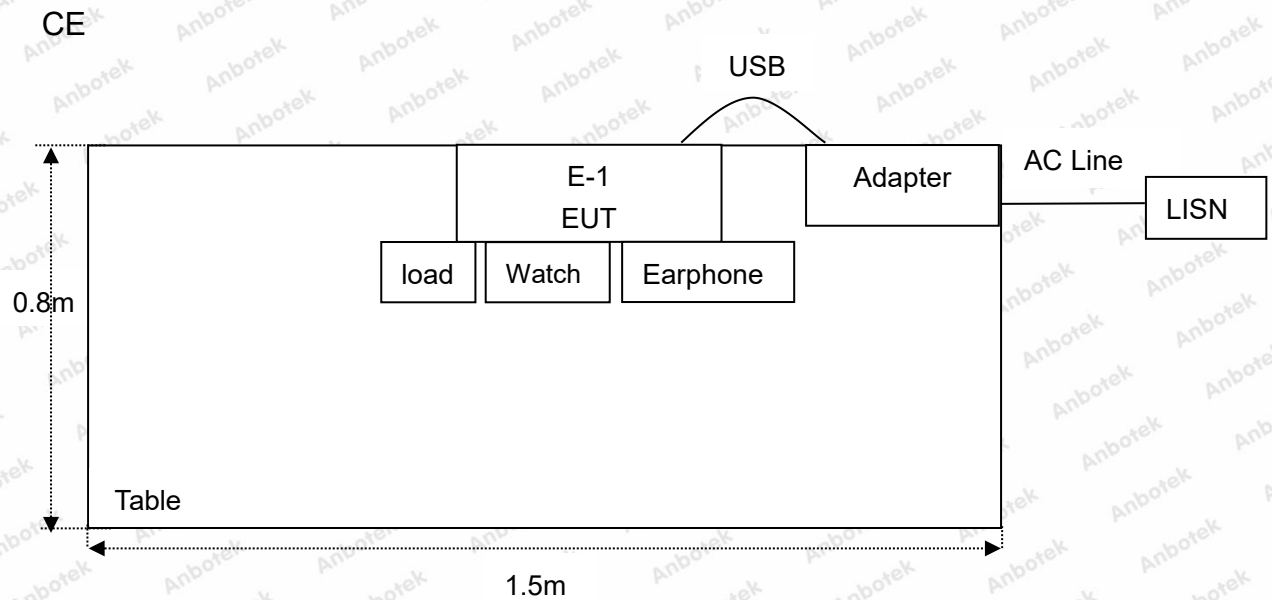


TM18	WPT Mode (Watch (2W))
TM19	WPT Mode (Earphone (3W))
TM20	Standby Mode

Note: 1%, 50%, and 99% load cases were pre-tested for all modes, but we only recorded the worst case(TM1: WPT Mode (load (15W) 1% + Watch (2W) 1% + Earphone (3W) 1%)) in this report.



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year



1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Occupied Bandwidth	925Hz
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

Shenzhen Anbotek Compliance Laboratory Limited

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Code: AB-RF-05-b



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2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	PASS
15.205/15.209	Spurious Emission	PASS
15.215(c)	20dB Occupy Bandwidth	PASS



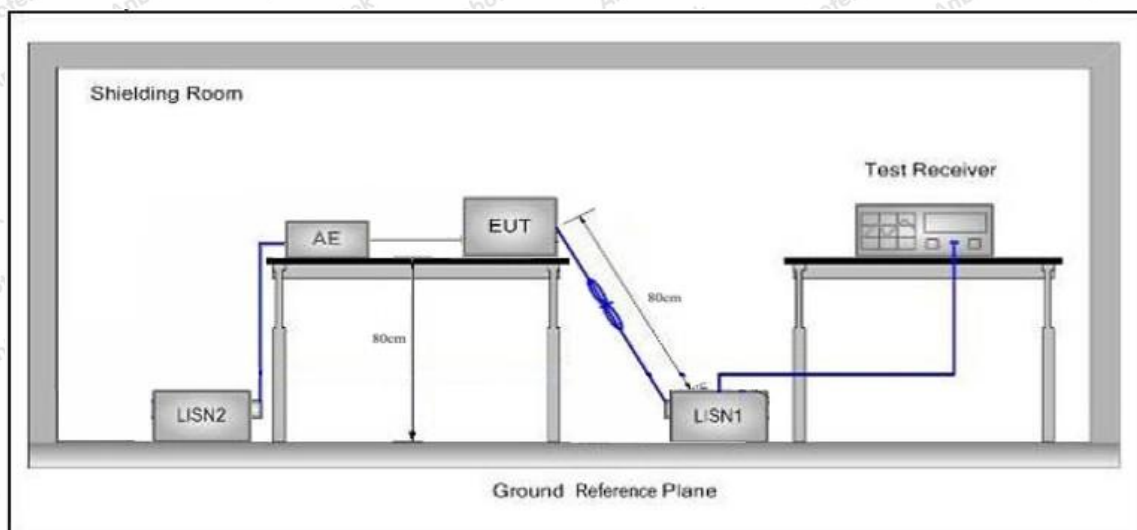
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

PASS

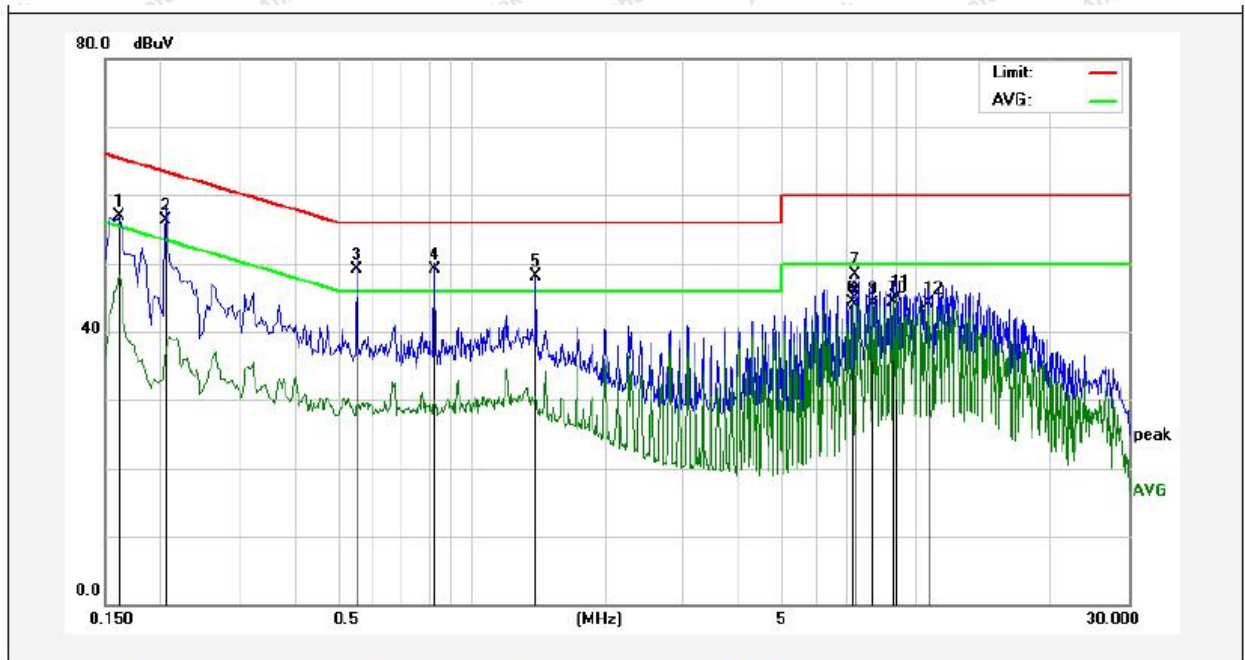
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: DC 9V from adapter input AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 23.9°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	39.00	17.83	56.83	65.36	-8.53	QP	
2	0.2060	38.56	17.82	56.38	63.36	-6.98	QP	
3	0.5540	31.20	17.86	49.06	56.00	-6.94	QP	
4	0.8300	31.19	17.87	49.06	56.00	-6.94	QP	
5	1.3980	30.15	17.86	48.01	56.00	-7.99	QP	
6	7.2020	26.37	17.90	44.27	50.00	-5.73	AVG	
7	7.2820	30.36	17.91	48.27	60.00	-11.73	QP	
8	7.2820	26.04	17.91	43.95	50.00	-6.05	AVG	
9	8.0020	26.18	17.93	44.11	50.00	-5.89	AVG	
10	8.8979	26.45	17.95	44.40	50.00	-5.60	AVG	
11	8.9700	27.07	17.95	45.02	50.00	-4.98	AVG	
12	10.6700	26.19	18.00	44.19	50.00	-5.81	AVG	



Conducted Emission Test Data

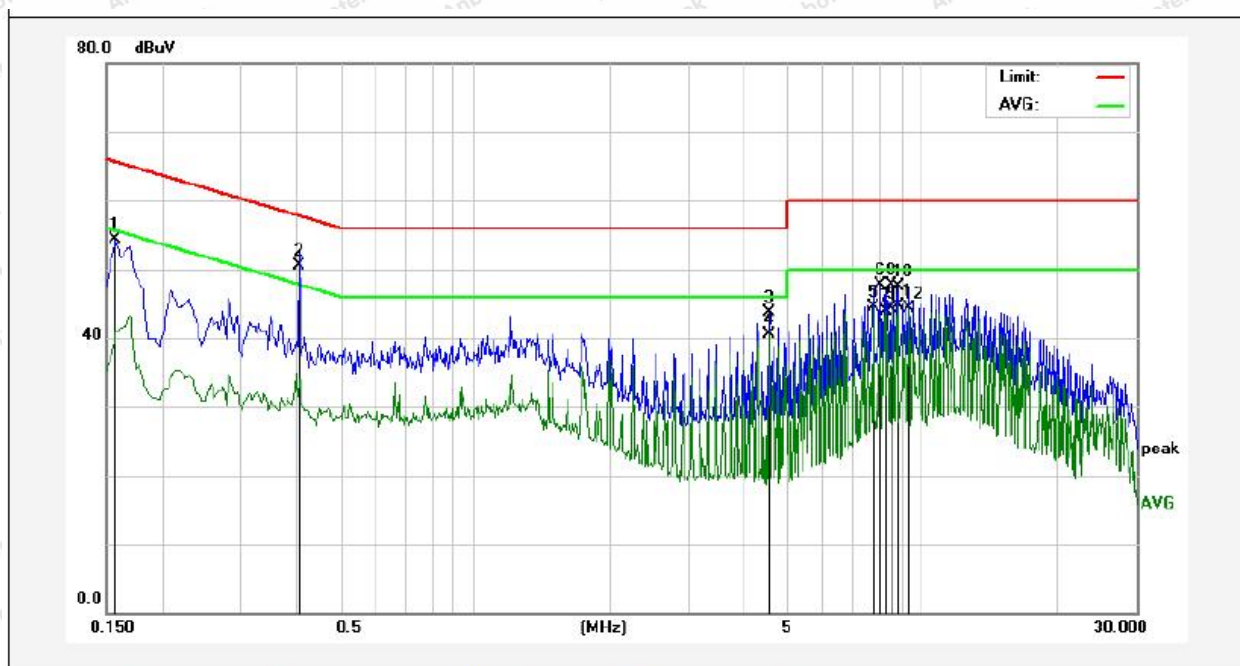
Test Site: 1# Shielded Room

Operating Condition: TM1

Test Specification: DC 9V from adapter input AC 120V/60Hz

Comment: Neutral Line

Temp.(°C)/Hum.(%RH): 23.9°C/50%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	36.48	17.83	54.31	65.56	-11.25	QP	
2	0.4060	32.69	17.81	50.50	57.73	-7.23	QP	
3	4.5340	25.75	17.86	43.61	56.00	-12.39	QP	
4	4.5340	22.58	17.86	40.44	46.00	-5.56	AVG	
5	7.7340	26.54	17.92	44.46	50.00	-5.54	AVG	
6	8.0460	29.70	17.93	47.63	60.00	-12.37	QP	
7	8.2700	26.04	17.94	43.98	50.00	-6.02	AVG	
8	8.5340	29.78	17.94	47.72	60.00	-12.28	QP	
9	8.5340	26.43	17.94	44.37	50.00	-5.63	AVG	
10	8.8020	29.61	17.95	47.56	60.00	-12.44	QP	
11	8.8020	26.77	17.95	44.72	50.00	-5.28	AVG	
12	9.3340	26.27	17.96	44.23	50.00	-5.77	AVG	



4. Radiation Spurious Emission

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

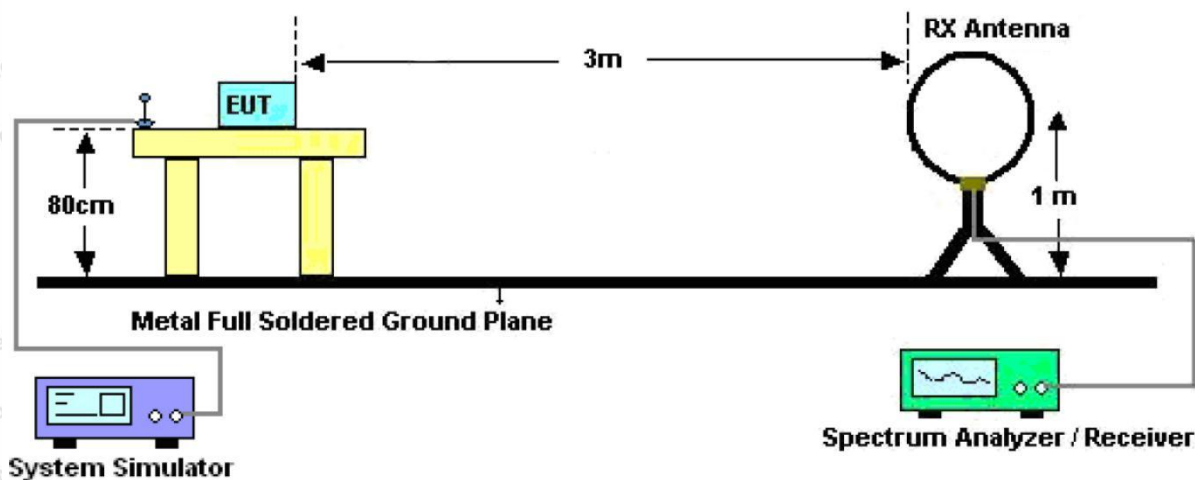


Figure 1. Below 30MHz



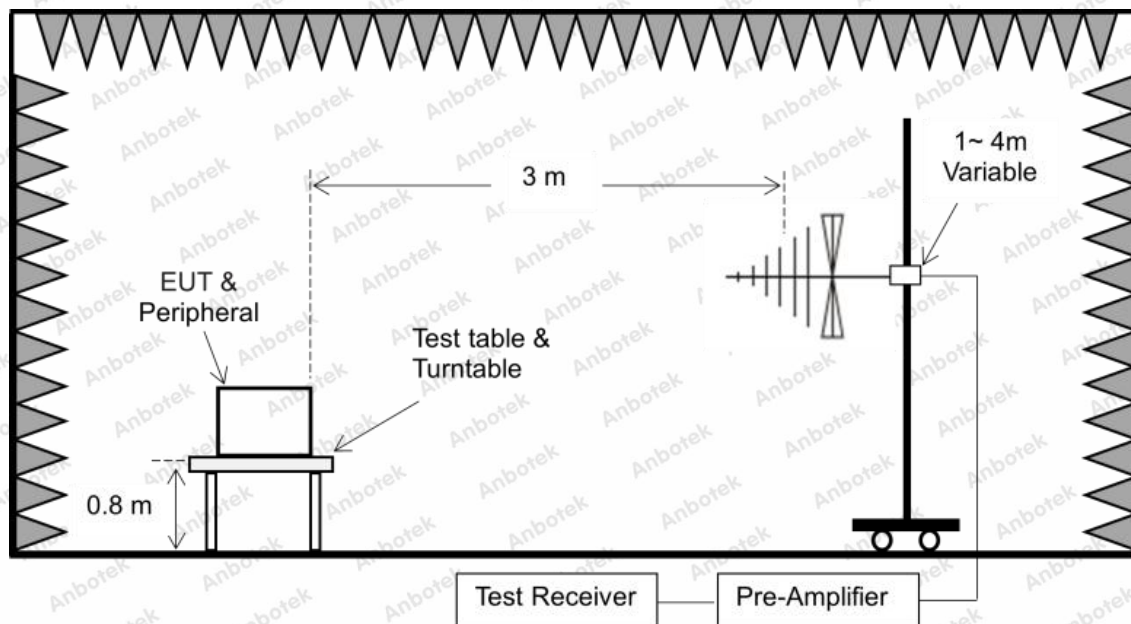


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

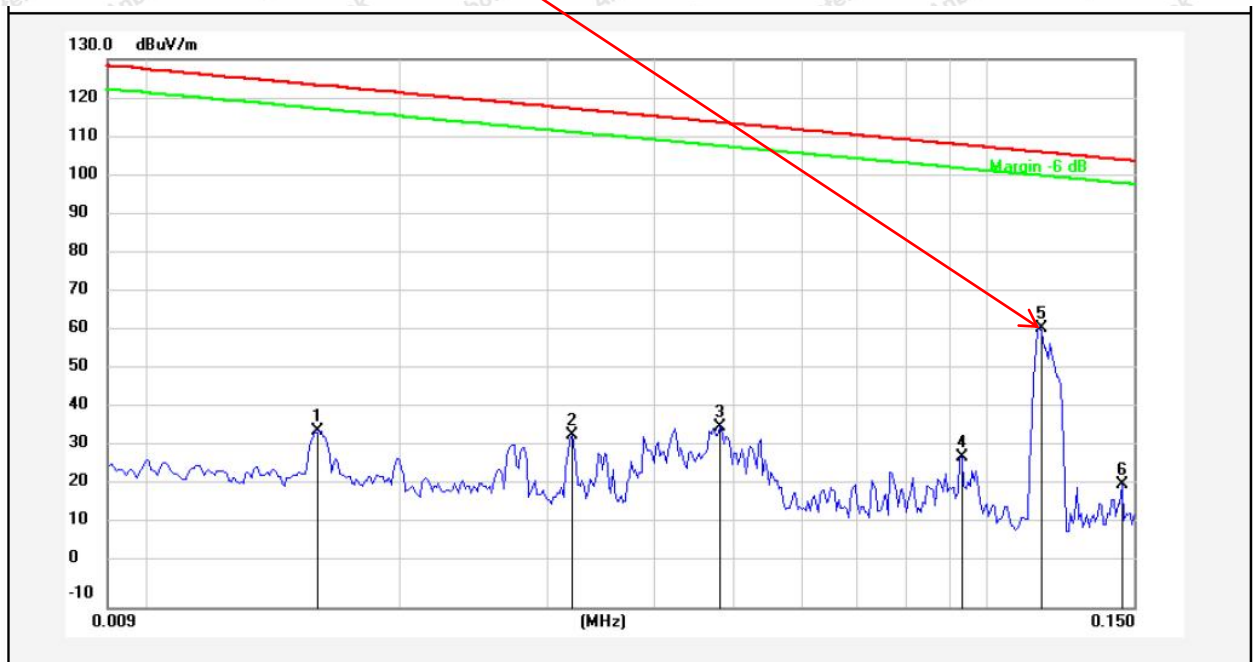
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.



Test Results (Between 9KHz – 150KHz)

Test Mode: TM1
Distance: 3m
Power Source: DC 9V from adapter input AC 120V/60Hz
Temp.(°C)/Hum.(%RH): 23.5°C/49%RH
Polarization: X-axis
Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0159	14.81	20.30	35.11	123.39	-88.28	peak			
2	0.0321	13.40	20.56	33.96	117.33	-83.37	peak			
3	0.0481	15.66	20.42	36.08	113.84	-77.76	peak			
4	0.0930	8.13	20.32	28.45	108.15	-79.70	peak			
5	0.1158	41.00	20.31	61.31	106.25	-44.94	peak			
6	0.1449	1.05	20.33	21.38	104.32	-82.94	peak			



Test Results (Between 0.15MHz – 30MHz)

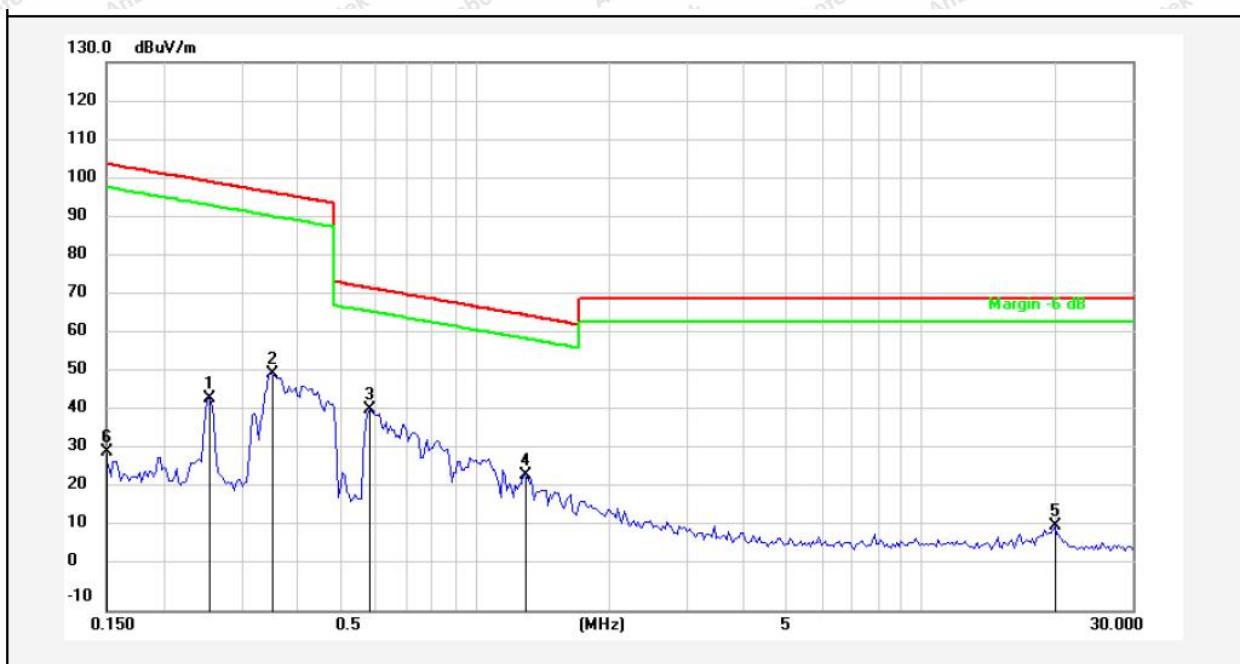
Test Mode: TM1

Distance: 3m

Power Source: DC 9V from adapter input AC 120V/60Hz

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH

Polarization: X-axis



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.2548	23.82	20.30	44.12	99.44	-55.32	peak			
2	0.3502	30.00	20.28	50.28	96.70	-46.42	peak			
3	0.5823	20.95	20.27	41.22	72.31	-31.09	QP			
4	1.2892	4.08	20.26	24.34	65.42	-41.08	QP			
5	20.0559	-9.19	20.59	11.40	69.50	-58.10	QP			
6	0.1500	9.95	20.33	30.28	104.02	-73.74	peak			

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.



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Test Results (Between 30MHz –1000 MHz)

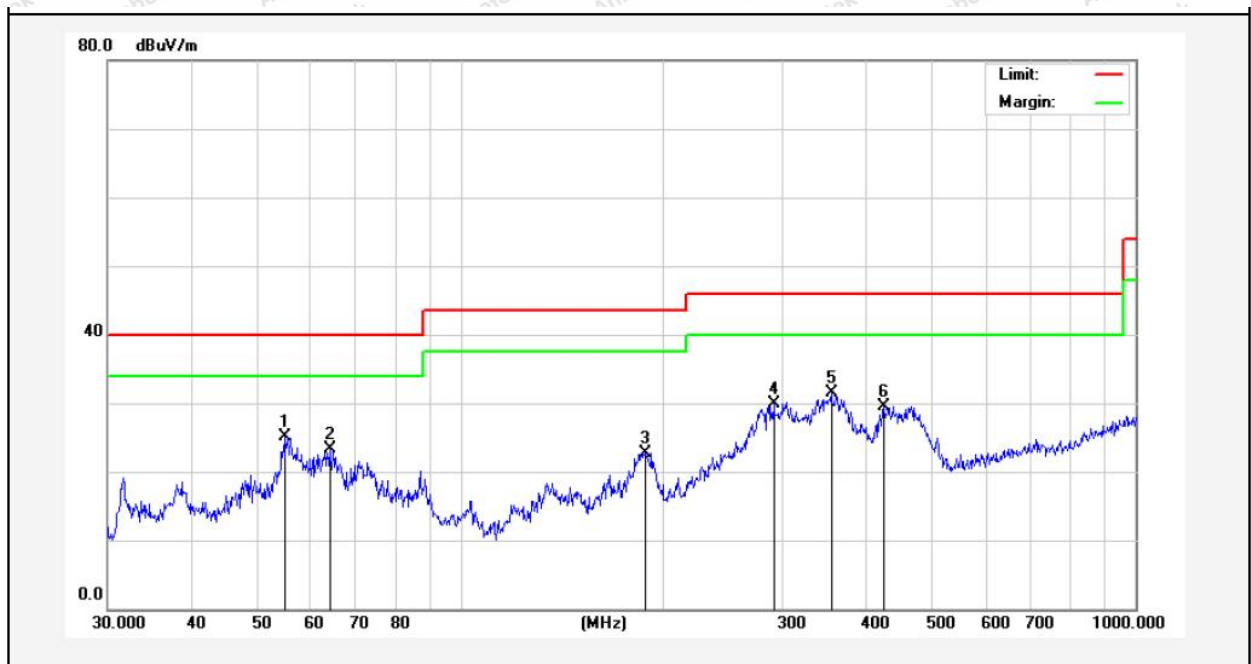
Test Mode: TM1

Distance: 3m

Power Source: DC 9V from adapter input AC 120V/60Hz

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	55.0274	42.72	-17.63	25.09	40.00	-14.91	QP			
2	63.9828	42.23	-18.94	23.29	40.00	-16.71	QP			
3	187.7530	45.64	-22.85	22.79	43.50	-20.71	QP			
4	291.0360	47.87	-17.94	29.93	46.00	-16.07	QP			
5	354.1831	47.52	-16.00	31.52	46.00	-14.48	QP			
6	423.5403	45.34	-15.83	29.51	46.00	-16.49	QP			



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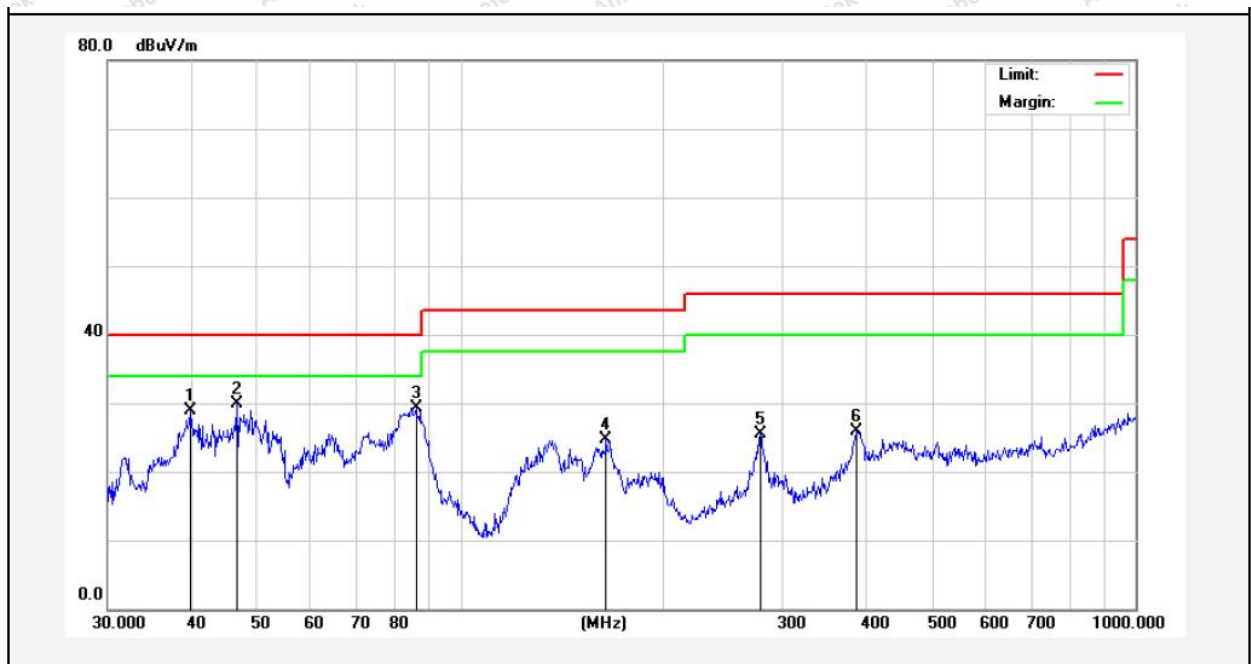
Test Mode: TM1

Distance: 3m

Power Source: DC 9V from adapter input AC 120V/60Hz

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.7146	43.56	-14.71	28.85	40.00	-11.15	QP			
2	46.6664	45.24	-15.29	29.95	40.00	-10.05	QP			
3	85.8984	47.61	-18.36	29.25	40.00	-10.75	QP			
4	164.3301	46.08	-21.42	24.66	43.50	-18.84	QP			
5	278.0668	42.51	-16.99	25.52	46.00	-20.48	QP			
6	386.6338	40.44	-14.59	25.85	46.00	-20.15	QP			

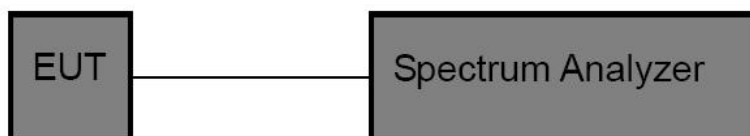


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2. Test Setup



5.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with $RBW=1\%-5\%OBW$, $VBW \geq 3 \times RBW$. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Data

Temperature:	25.7 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Freq. (MHz)	20dB Bandwidth (kHz)	Results
0.1158	1.079	PASS



Freq. (MHz)	20dB Bandwidth (kHz)	Results
0.325	1.049	PASS



6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

